

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A microcapsule formulation comprising:
microcapsules of an average diameter of from 1 to 100 μm , having
a core of a hydrophobic material and
a capsule shell of an addition polymer containing in copolymerized form at least 10%
by weight of cationogenic monomers and/or polyethylenically unsaturated monomers whose
unsaturated sites are connected via successive chemical bonds of which at least one bond is
acid-hydrolyzable,
wherein the microcapsules are obtainable by polymerizing a monomer mixture
constituting the capsule shell in the oil phase of a stable oil-in-water emulsion.

Claim 2 (Previously Presented): A microcapsule formulation as claimed in claim 1,
wherein said cationogenic monomers comprise aminoalkyl (meth)acrylates and/or
aminoalkyl(meth)acrylamides.

Claim 3 (Previously Presented): A microcapsule formulation as claimed in claim 1,
wherein said polyethylenically unsaturated monomers having an acid-hydrolyzable bond
comprise alkylenebis(meth)acrylamides.

Claim 4 (Previously Presented): A microcapsule formulation as claimed in claim 1,
wherein said hydrophobic material comprises at least one fragrance or perfume.

Application No. 10/019,312
Reply to Office Action of August 6, 2003.

Claim 5 (Previously Presented): A microcapsule formulation as claimed in claim 1, wherein said hydrophobic material comprises at least one constituent selected from bleach activators, foam suppressants, optical brighteners, and enzymes.

Claim 6 (Previously Presented): A microcapsule formulation as claimed in claim 1, in spray-dried form.

Claim 7 (Currently Amended): A method for making ~~The use of a microcapsule formulation as claimed in claim 1 in~~ a laundry detergent for textiles or a cleaning product for nontextile surfaces, skin or hair comprising adding the microcapsule formulation as claimed in claim 1 to a laundry detergent or cleaning product.

Claim 8 (Currently Amended): A laundry detergent or cleaning product composition comprising microcapsules having

a core of a hydrophobic material, which comprises at least one fragrance or perfume, and

a shell of an addition polymer containing in copolymerized form at least 10% by weight of anionogenic monoethylenically unsaturated monomers and/or polyethylenically unsaturated monomers whose unsaturated sites are connected via successive chemical bonds of which at least one bond is base-hydrolyzable,

the weight proportion of the hydrophobic core material with respect to the entire capsule being from 50 to 98%.

Claim 9 (Previously Presented): A composition as claimed in claim 8, wherein said anionogenic monomers comprise ethylenically unsaturated C₃-C₆ monocarboxylic acids or

Application No. 10/019,312
Reply to Office Action of August 6, 2003.

C₄-C₆ dicarboxylic acids or monoesters or intramolecular anhydrides of ethylenically unsaturated C₄-C₆ dicarboxylic acids.

Claim 10 (Previously Presented): A composition as claimed in claim 8, wherein said polyethylenically unsaturated monomers having a base-hydrolyzable bond comprise anhydrides of monoethylenically unsaturated C₃-C₆ monocarboxylic acids.

Claim 11 (Previously Presented): A composition as claimed in claim 8, further comprising at least one constituent selected from surfactants and/or builders.

Claim 12 (New): The composition of Claim 8, wherein said fragrance comprises one or more compounds selected from the group consisting of orange oil, lemon oil, rose extract, lavender, musk, patchouli, balsam essence, sandalwood oil, pine oil, and cedar oil.

Claim 13 (New): The composition of Claim 8, wherein said fragrance comprises one or more compounds selected from the group consisting of 7-acetyl-1,2,3,4,5,6,7,8-octahydro-1,1,6,7-tetramethyl-naphthalene, α -ionone, β -ionone, $\gamma\gamma$ -ionone α -isomethylionone, methylcedrylone, methyl dihydrojasmonate, methyl 1,6,10-trimethyl-2,5,9-cyclododecatrien-1-yl ketone, 7-acetyl-1,1,3,4,4,6-hexamethyltetralin, 4-acetyl-6-tert-butyl-1,1-dimethylindane, hydroxyphenylbutanone, benzophenone, methyl β -naphthyl ketone, 6-acetyl-1,1,2,3,3,5-hexamethylindane, 5-acetyl-3-isopropyl-1,1,2,6-tetramethylindane, 1-dodecanal, 4-(4-hydroxy-4-methylpentyl)-3-cyclohexene-1-carboxaldehyde, 7-hydroxy-3,7-dimethyloctanal, 10-undecen-1-al, isohexenylcyclohexylcarboxaldehyde, formyltricyclodecane, condensation products of hydroxycitronellal and methyl anthranilate, condensation products of hydroxycitronellal and indole, condensation products of

phenylacetaldehyde and indole, 2-methyl-3-(para-tert-butylphenyl)propionaldehyde, ethylvanillin, heliotropin, hexylcinnamaldehyde, amylcinnamaldehyde, 2-methyl-2-(isopropylphenyl)propionaldehyde, coumarin, γ -decalactone, cyclopentadecanolide, 16-hydroxy-9-hexadecenoic acid lactone, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylcyclopenta- γ -2-benzopyran, β -naphthol methyl ether, ambroxane, dodecahydro-3a,6,6,9a-tetramethylnaphtho[2,1b]furan, cedrol, 5-(2,2,3-trimethylcyclopent-3-enyl)-3-methylpentan-2-ol, 2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol, caryophyllene alcohol, tricyclodecanyl propionate, tricyclodecanyl acetate, benzyl salicylate, cedryl acetate, and tert-butylcyclohexyl acetate.

Claim 14 (New): The composition of Claim 8, wherein said fragrance comprises one or more compounds selected from the group consisting of Peru balsam, olibanum resinoid, styrax, labdanum resin, nutmeg, cassia oil, benzoin resin, coriander, lavandin, phenylethyl alcohol, terpineol, linalool, linalyl acetate, geraniol, nerol, 2-(1,1-dimethylethyl)cyclohexanol acetate, benzyl acetate, and eugenol.

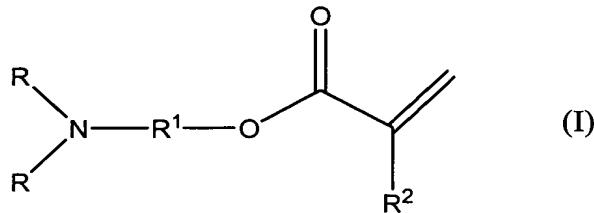
Claim 15 (New): The microcapsule formulation of Claim 1, wherein said hydrophobic material comprises one or more compounds selected from the group consisting of orange oil, lemon oil, rose extract, lavender, musk, patchouli, balsam essence, sandalwood oil, pine oil, cedar oil, Peru balsam, olibanum resinoid, styrax, labdanum resin, nutmeg, cassia oil, benzoin resin, coriander, lavandin, phenylethyl alcohol, terpineol, linalool, linalyl acetate, geraniol, nerol, 2-(1,1-dimethylethyl)cyclo-hexanol acetate, benzyl acetate, and eugenol.

Application No. 10/019,312
Reply to Office Action of August 6, 2003.

Claim 16 (New): The microcapsule formulation of Claim 1, wherein said hydrophobic material comprises one or more compounds selected from the group consisting of 7-acetyl-1,2,3,4,5,6,7,8-octahydro-1,1,6,7-tetramethyl-naphthalene, α -ionone, β -ionone, $\gamma\gamma$ -ionone α -isomethylionone, methylcedrylone, methyl dihydrojasmonate, methyl 1,6,10-trimethyl-2,5,9-cyclododecatrien-1-yl ketone, 7-acetyl-1,1,3,4,4,6-hexamethyltetralin, 4-acetyl-6-tert-butyl-1,1-dimethylindane, hydroxyphenylbutanone, benzophenone, methyl β -naphthyl ketone, 6-acetyl-1,1,2,3,3,5-hexamethylindane, 5-acetyl-3-isopropyl-1,1,2,6-tetramethylindane, 1-dodecanal, 4-(4-hydroxy-4-methylpentyl)-3-cyclohexene-1-carboxaldehyde, 7-hydroxy-3,7-dimethyloctanal, 10-undecen-1-al, isohexenylcyclohexylcarboxaldehyde, formyltricyclodecane, condensation products of hydroxycitronellal and methyl anthranilate, condensation products of hydroxycitronellal and indole, condensation products of phenylacetaldehyde and indole, 2-methyl-3-(para-tert-butylphenyl)propionaldehyde, ethylvanillin, heliotropin, hexylcinnamaldehyde, amylcinnamaldehyde, 2-methyl-2-(isopropylphenyl)propionaldehyde, coumarin, γ -decalactone, cyclopentadecanolide, 16-hydroxy-9-hexadecenoic acid lactone, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-cyclopenta- γ -2-benzopyran, β -naphthol methyl ether, ambroxane, dodecahydro-3a,6,6,9a-tetramethylnaphtho[2,1b]furan, cedrol, 5-(2,2,3-trimethylcyclopent-3-enyl)-3-methylpentan-2-ol, 2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol, caryophyllene alcohol, tricyclodecetyl propionate, tricyclodecetyl acetate, benzyl salicylate, cedryl acetate, and tert-butylcyclohexyl acetate.

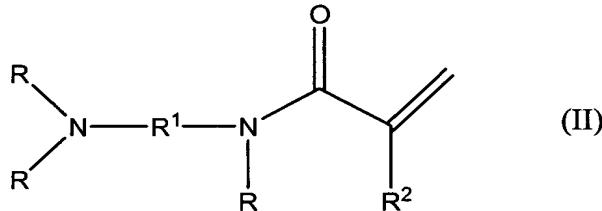
Claim 17 (New): The microcapsule formulation of Claim 1, wherein said capsule shell comprises one or more cationogenic monomer(s) selected from the group consisting of aminoalkyl (meth)acrylate(s) and aminoalkyl(meth)acrylamide(s).

Claim 18 (New): The microcapsule formulation of Claim 1, wherein said capsule shell comprises one or more cationogenic monomer(s) of formula I:



where the radicals R independently of one another are hydrogen, C₁-C₈ alkyl, C₁-C₈ hydroxyalkyl or polyoxy(C₁-C₄)alkylene of 2 to 500 alkylene units or two radicals R together with the nitrogen atom to which they are attached form a 5- to 8-membered, preferably saturated, ring; R¹ is C₁-C₁₈ alkylene, preferably C₂-C₆ alkylene, and R² is hydrogen or methyl.

Claim 19 (New): The microcapsule formulation of Claim 1, wherein said cationogenic monomer is selected from the group consisting of at least one compound of formula II:



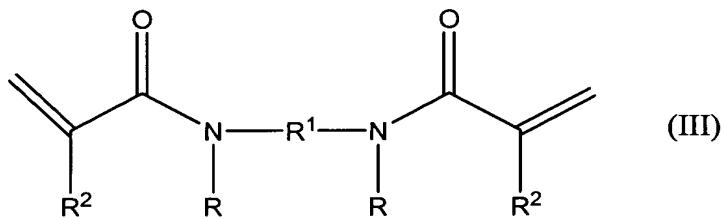
where R, R¹ and R² are as defined above.

Claim 20 (New): The microcapsule formulation of Claim 1, wherein said capsule shell comprises one or more cationogenic monomer(s) selected from the group consisting of N-dimethylaminopropylmethacrylamide, N,N-dimethylaminoethyl methacrylate, N,N-

dimethylaminoethyl acrylate, 2-tert-butylaminoethyl methacrylate, 2-N-morpholinoethyl methacrylate, 2-N-morpholinoethyl acrylate, and 3-dimethylaminoneopentyl acrylate.

Claim 21 (New): The microcapsule formulation of Claim 1, wherein said capsule shell comprises at least one polyethylenically unsaturated monomer(s) having an acid-hydrolyzable bond which is an alkylenebis(meth)acrylamide(s).

Claim 22 (New): The microcapsule formulation of Claim 1, wherein said capsule shell comprises at least one polyethylenically unsaturated monomer(s) having an acid-hydrolyzable bond which is an alkylenebis(meth)acrylamide(s) of the formula III:



where R, R¹ and R² are as defined above.

Claim 23 (New) The microcapsule formulation of Claim 1, wherein said capsule shell comprises at least one polyethylenically unsaturated monomer(s) having an acid-hydrolyzable bond which is selected from the group consisting of N,N'-methylenebisacrylamide and N,N'-hexamethylenebismethacrylamide.

Claim 24 (New): A method for pH-mediated release of an encapsulated material comprising:

exposing microcapsules to a pH of about 2 to 7,

wherein said microcapsules have an average diameter of from 1 to 100 μm ,

comprise a core of a hydrophobic material and

a capsule shell of an addition polymer containing in copolymerized form at least 1% by weight of cationogenic monomers and/or polyethylenically unsaturated monomers whose unsaturated sites are connected via successive chemical bonds of which at least one bond is acid-hydrolyzable.

Claim 25 (New): A method for pH-mediated release of an encapsulated material comprising:
exposing microcapsules to a pH of about 8 to 14,
wherein said microcapsules have an average diameter of from 1 to 100 μm ,
comprise a core of a hydrophobic material and
a capsule shell of an addition polymer containing in copolymerized form at least 1% by weight of cationogenic monomers and/or polyethylenically unsaturated monomers whose unsaturated sites are connected via successive chemical bonds of which at least one bond is base-hydrolyzable.